UltraEasy Fence Installation Guide
In the Concrete

v20230731US

NewTechWood®

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IMPORTANT:

Read All Sections Before You Start

For the most up-to-date information, please visit our website @ www.newtechwood.com

Prior to installing any composite product, it is recommended that you check with local building codes for any special requirements or restrictions. The diagrams and instructions outlined in this guide are for illustration purposes only and are not meant or implied to replace a licensed professional. Any construction or use of NewTechWood must be in accordance with all local zoning and/or building codes. The consumer assumes all risks and liability associated with the construction and use of this product.

Safety

When dealing with any type of construction project, it is necessary to wear appropriate safety equipment to avoid any risk of injuries. NewTechWood recommends but is not limited to the following safety equipment when handling, cutting, and installing NewTechWood: gloves, a respiratory protection, long sleeves, pants, and safety glasses.

Tools

Standard woodworking tools may be used. It is recommended that all blades have a carbide tip. Standard stainless steel screws are recommended.

Environment

A clean, smooth, flat, and strong surface is needed to install NewTechWood's products correctly. Please check with local building codes before ever installing any type of fencing If installation does not occur immediately NewTechWood's products need to be put on a flat surface at all times. Never ever should it be put on a surface that is NOT flat.

Planning

Plan a layout for your fencing before starting it to ensure the best possible looking fence for your project. Building codes and zoning ordinances generally apply to permanent structures, meaning anything that is anchored to the ground or attached to the house. So nearly every kind of fencing requires permits and inspections from a local building department. We recommend drawing out a site plan of your proposed project that you intend to do to minimize errors and make your perfect fence.

Construction

NewTechWood UltraEasy fencing is NOT intended for use as columns, support posts, beams, joist stringers, support against a force, or other primary load-bearing members. NewTechWood must be supported by a code-compliant substructure. While NewTechWood products are great for retrofits, NewTechWood's products CANNOT be installed on existing siding boards.

Static

Static can also be more prevalent in areas that are of higher altitude because the humidity is lower. For these areas, be careful of using conducive objects such as metal railing and chairs as static shocks might occur more often. A potential way to lower the amount of static shocks occurring is to apply Staticide (www.aclstaticide.com) on your deck or use anti-static mats before doorways.

Ventilation

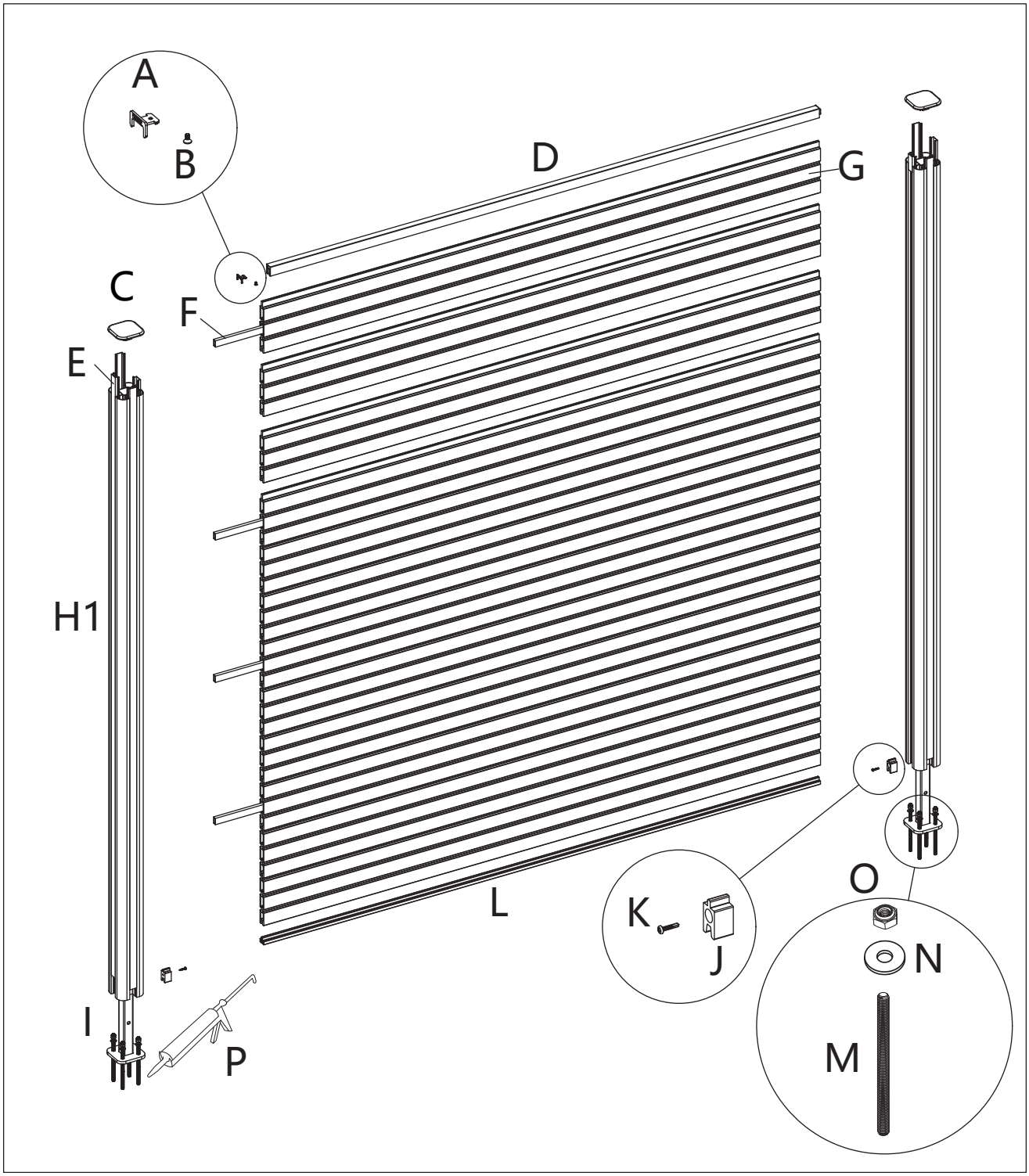
UltraEasy fencing needs to have at least one of the clips or stopper installed at the bottom of each aluminum post sleeve as well as a starting and ending aluminum trim to work properly.

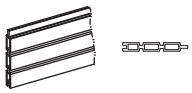
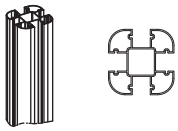
If one clip or stopper is not installed at the bottom of the post sleeve, there will be not sufficient enough air flow and could result in high wind speeds damaging the fence.

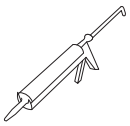
Heat and Fire

Excessive heat on the surface of NewTechWood products from external sources such as but not limited to fire or reflection of focussing sunlight from some optical objects can potentially harm NewTechWood products. This extreme elevation of surface temperatures, which exceeds that of normal exposure, can possibly cause NewTechWood products to melt, sag, warp, discolor, increase expansion/contraction, and accelerate weathering.

UltraEasy Fence Parts



Code	Qty	Description	Parts Number
A	x2	Clip	FN0220
B	x2	Screw ST4 x 5/16" (8mm)	WJ0128
C	x2	Post Cap	FN0223R
D	x1	Ending Aluminum Trim	FN0244-1736
E	x4	Post Trim	FN0214-1900
F	x4	Galvanized Steel Tube	
G 	x12	Fence Board	UH66
H1 	x2	Post Sleeve (For Concrete installation)	FN0213R-1900
I	x2	Post Mount (For Concrete installation only)	FN0219-0398
J	x2	Stopper	FN0105
K	x2	Screw ST4 x 13/16" (20mm)	WJ0127
L	x1	Starting Aluminum Trim	FN0245-1760

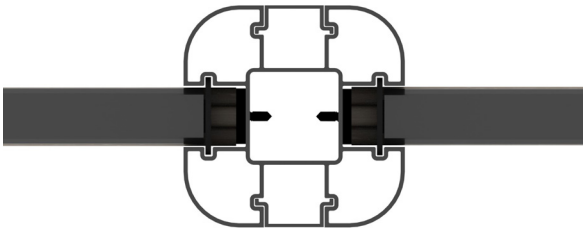
Code	Qty	Description	Parts Number
M	x4	Stainless Steel SUS 304 Thread Rod M8 x 4-5/16" (110mm)	WJ0203
N	x4	Stainless Steel SUS 304 Flat Washer M8	WJ0204
O	x4	Stainless Steel SUS 304 Nylon Lock Nut M8	WJ0202
P 	Not included	Chemical Anchor	

Please Note:

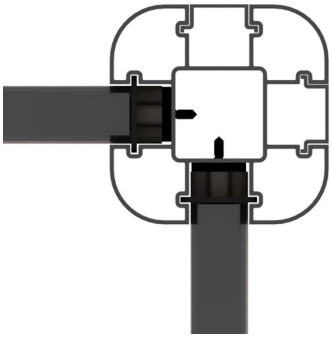
When choosing which chemical anchor to use, always check first with your local home centers and hardware stores to see which type of chemical anchor is appropriate to apply with your concrete ground.

Framing Layout for the UltraEasy Fence

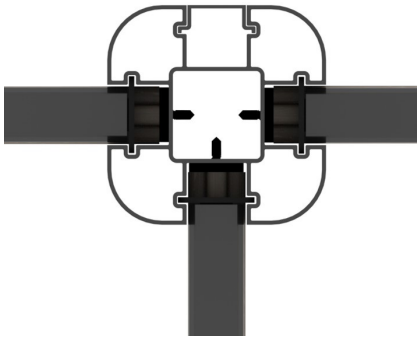
1. Straight Line



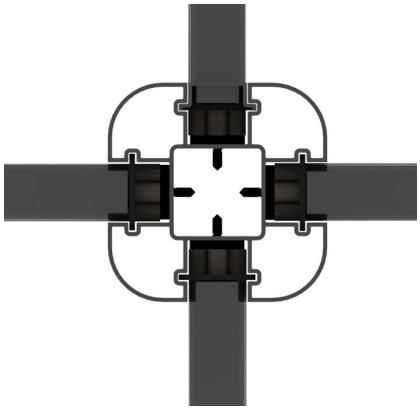
2. Right-Angle Corner



3. T-intersection



4. Cross-intersection



UltraEasy Fence Installation

A. Installation Procedure - In the Concrete

Step 1: Post Mounts Installation
- **Measure and Position the Post Mounts**
- **Fix the Post Mounts**

Step 2: Post Sleeves Installation

Step 3: Fence Boards Installation
- **Fixing the First Stopper**
- **Installing the Starting Aluminum Trim**
- **Installing the Fence Boards**
- **Installing the Post Trims**
- **Installing the Ending Aluminum Trim**
- **Installing the extra piece of Post Trim**
- **Installing the Post Cap**

Post Mount Installation

1 Measure and position the **Post Mounts (I)** on the ground at a distance of 5' 10 7/8" (1.8m) on center, and mark the thread rod holes on the ground, as shown in ***Diagram 1***.

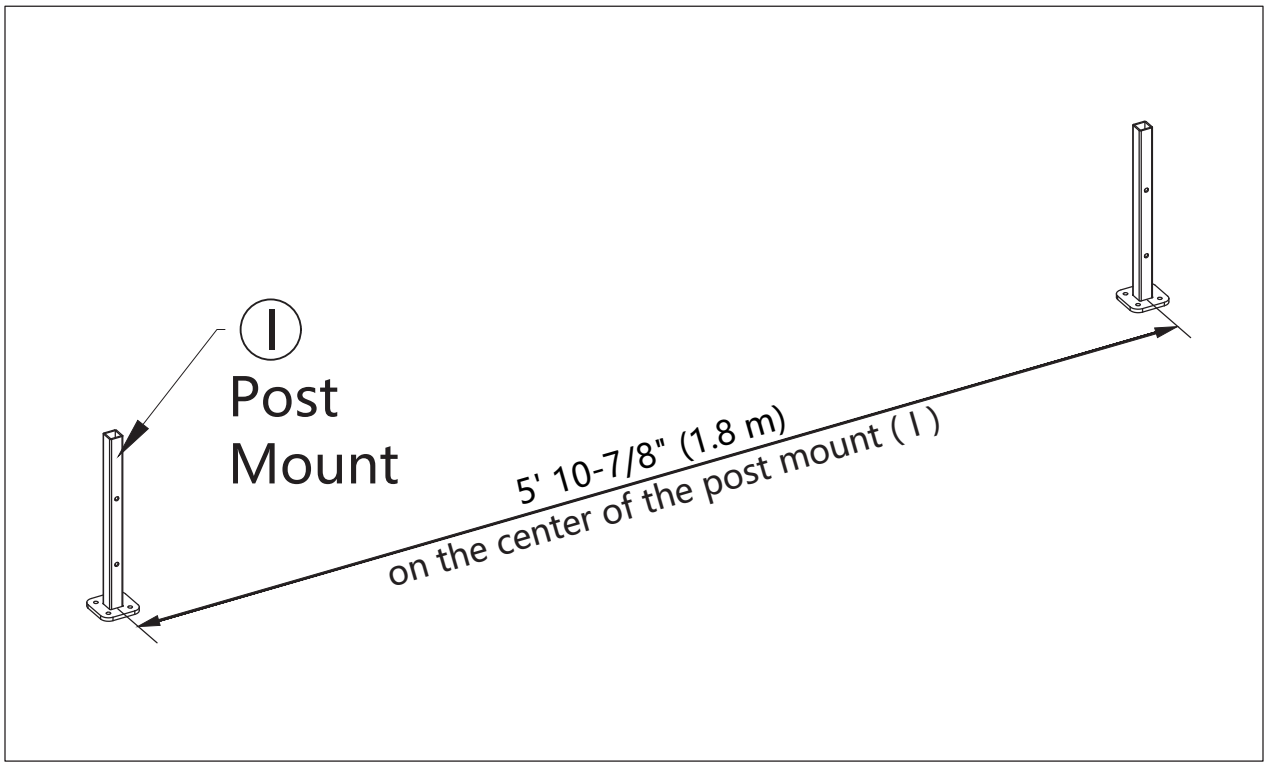


Diagram 1

2 Install the **Thread Rod (M)** according to the below work procedures, as shown in ***Diagram 2-1.***

1. Use an electric hammer drill to drill the thread rod holes on the ground.
2. Blow out the dust from the hole using a blow pump or oil free compressed air.
3. Clean the hole using a stiff nylon brush.
4. Clean the hole again using a blow pump or vacuum cleaner. Make sure all particles, dust are all completely removed.
5. Dispense the **Chemical Anchoring (P)** material inside the hole and withdraw the nozzle as the hole is filled
6. Insert the **Thread Rod (M)** into the hole immediately. This should be done slowly with a slightly twisting motion.
7. Remove the excess **Chemical Anchoring (P)** material from the mouth of the hole.

Please Note:

1. Safety

It is recommended to wear appropriate safety equipment to avoid any risk of injuries but is not limited to the following safety equipment when installing the Thread Rod (M)**: chemical resistant gloves, safety glasses, long sleeves, and pants.**

2. The concrete's thickness should be a min. of 4-5/16" (110mm)**.**

3. Use a 3/8" (10mm) masonry drill bit **to drill the hole for the** M8 Thread Rod (M). **The depth of the hole should be** 3-1/8" (80mm)**.**

4. Leave the Thread Rod (M) **undisturbed until it reaches the cure time. Please read the chemical anchor instruction sheet to find the cure time and see the precautions.**

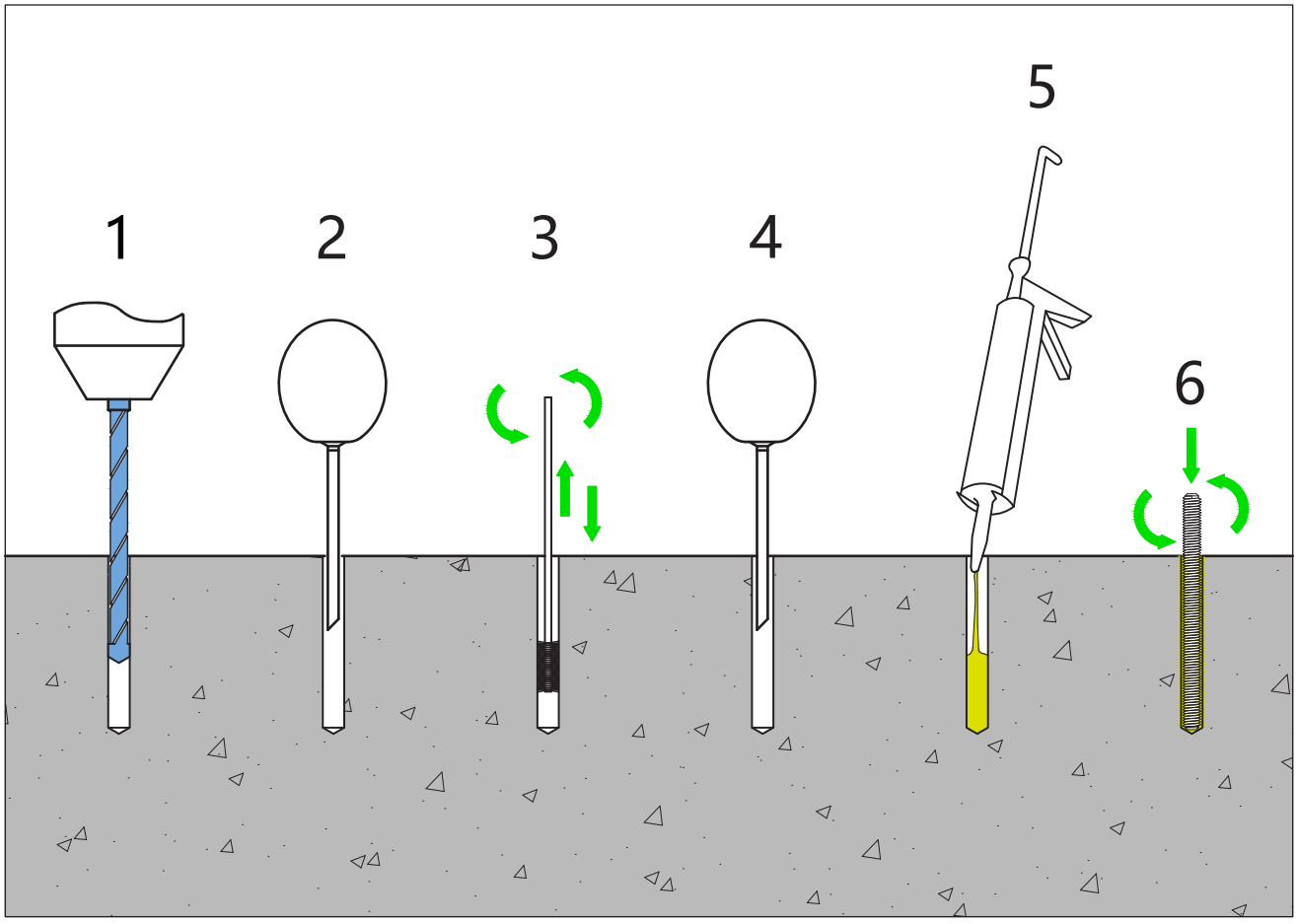


Diagram 2-1

When the **Chemical Anchoring (P)** material reaches the cure time, put the **Post Mount (I)** in place, as shown in ***Diagram 2-2***, and secure it with the **Lock Nut (O)** as shown in ***Diagram 2-3***.

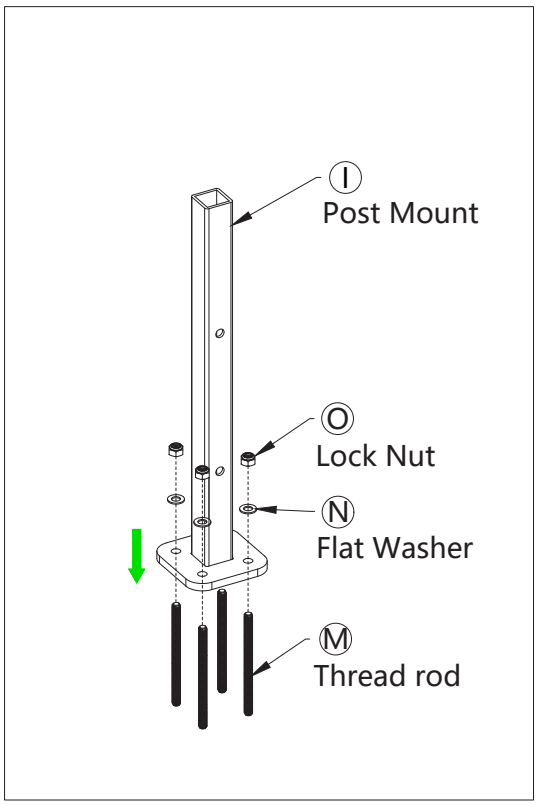


Diagram 2-2

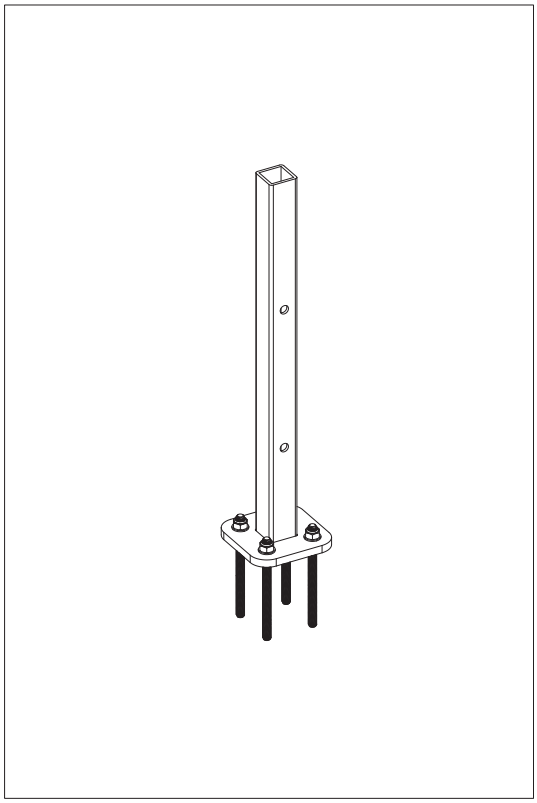


Diagram 2-3

Post Sleeves Installation

3 Insert the **Post Sleeves (H1)** over the **Post Mounts (I)**, as shown in ***Diagram 3***.

Please Note:

Check whether the Post Sleeves (H1) **is appropriately placed with the** Post Mounts (I)**, as shown in** *Detail 3-1*.

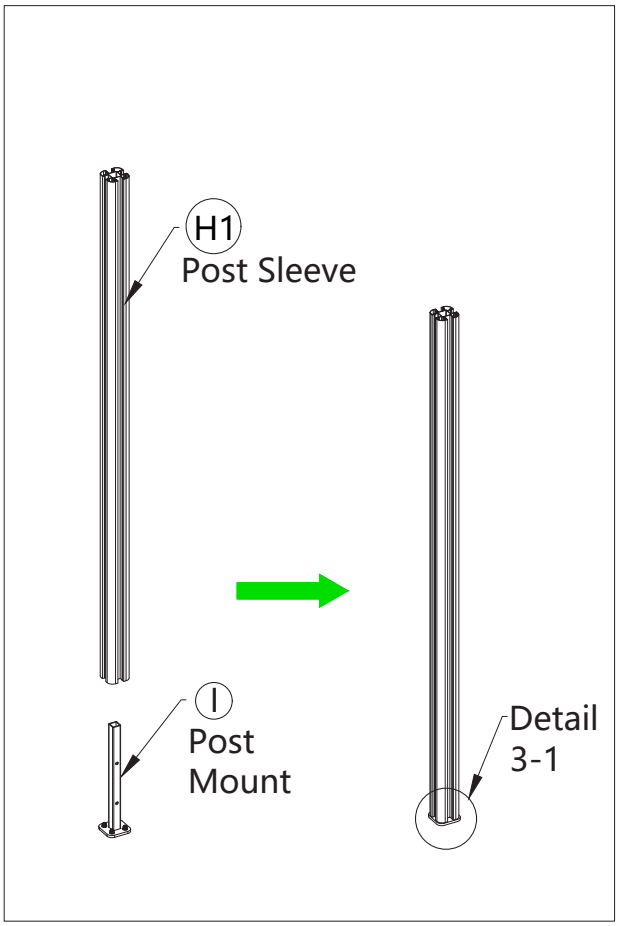
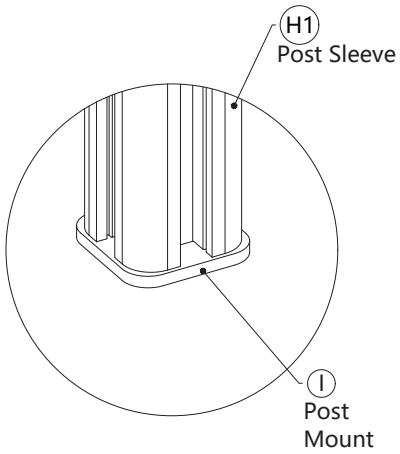


Diagram 3



Detail 3-1

Fence Boards Installation

4 Insert a **Stopper (J)** into the bottom of the **Post Sleeves (H1)** and fix it with the **Screw (K)**, as shown in ***Diagram 4***.

Please Note:

Ensure the Stopper (J) **is placed at the bottom of the** Post Sleeves (H1) **properly.**

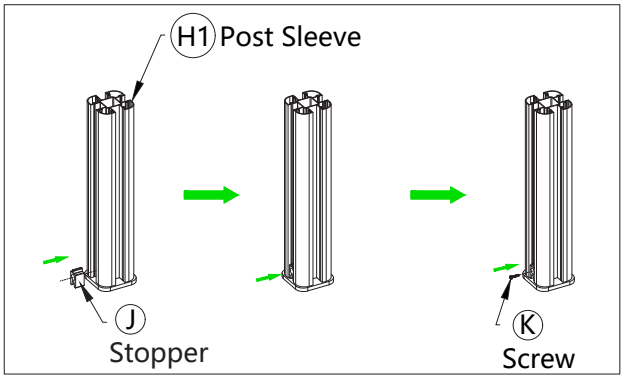


Diagram 4

5 Put the **Starting Aluminum Trim (L)** over the **Stopper (J)**, as shown in ***Diagram 5*** ***Detail 5-1*** and ***Detail 5-2***.

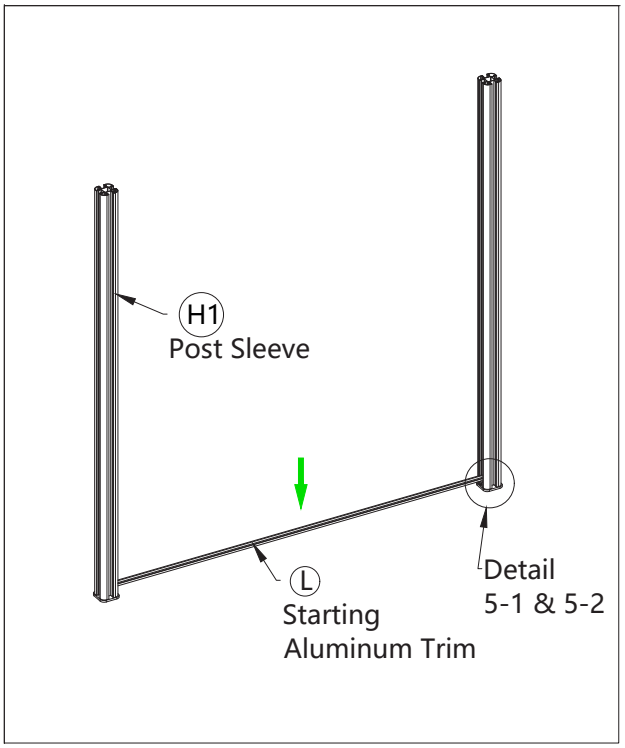
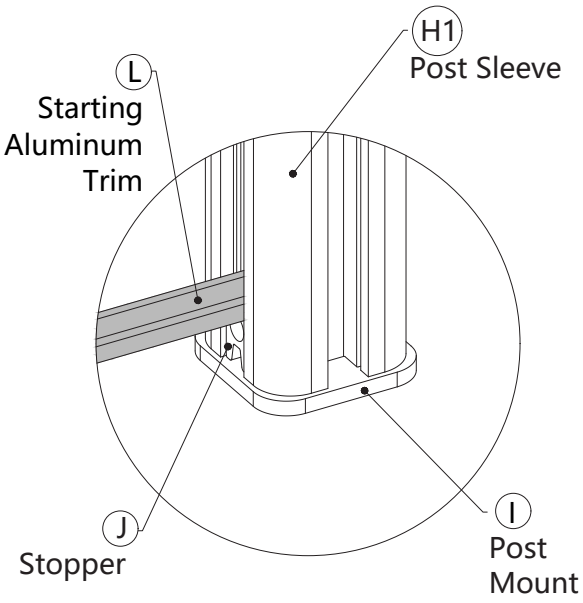
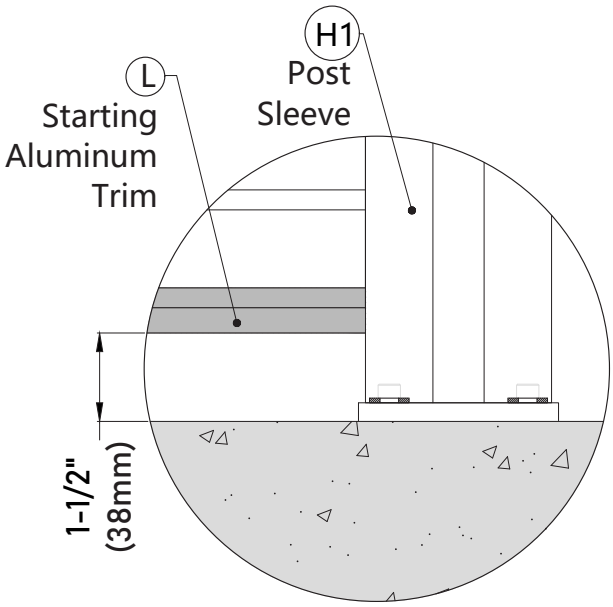


Diagram 5



Detail 5-1



Detail 5-2

6 Insert a **Galvanized Steel Tube (F)** into the central hollow of the 3rd, 6th, 9th and 12th **Fence Board (G)**, as shown in ***Diagram 6*** and ***Detail 6-1***.

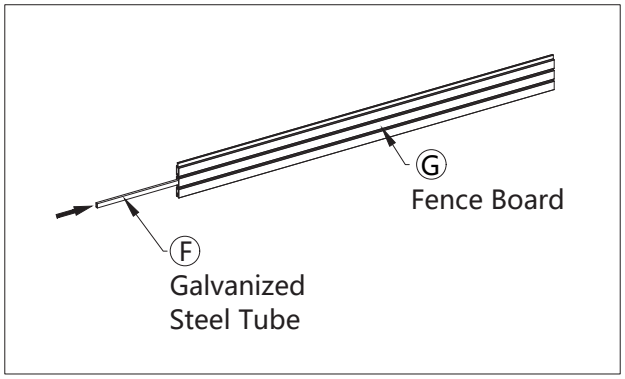
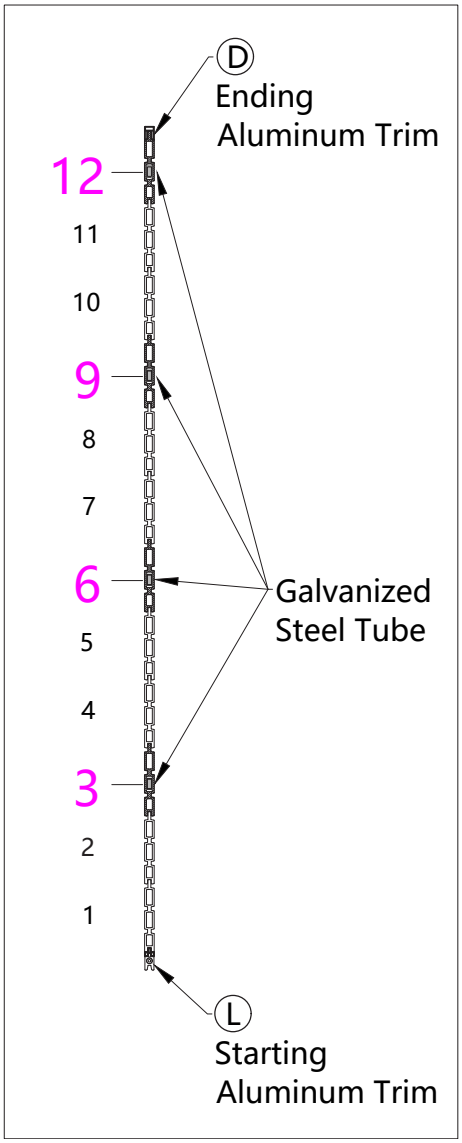


Diagram 6



Detail 6-1

7 Put the first **Fence Board (G)** over the **Starting Aluminum Trim (L)**, as shown in ***Diagram 7***.

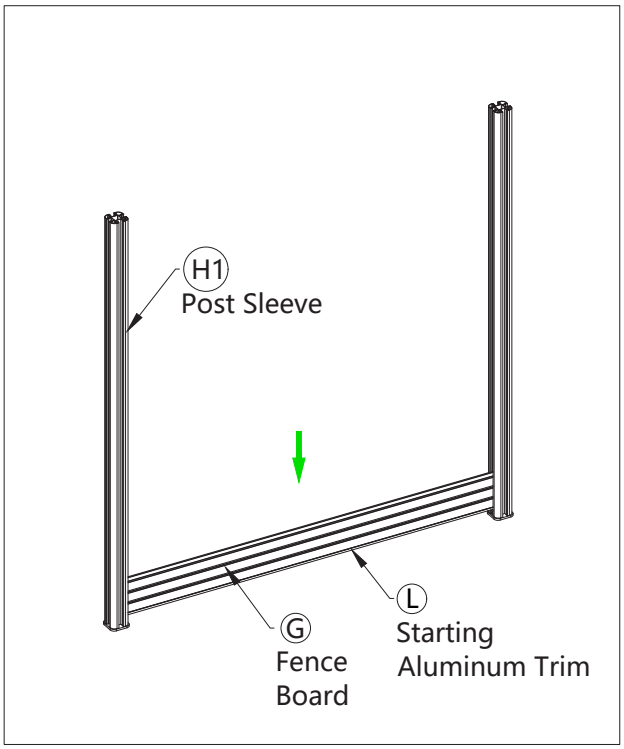


Diagram 7

8 Complete the installation for the rest of the **Fence Boards (G)**, as shown in ***Diagram 8***.

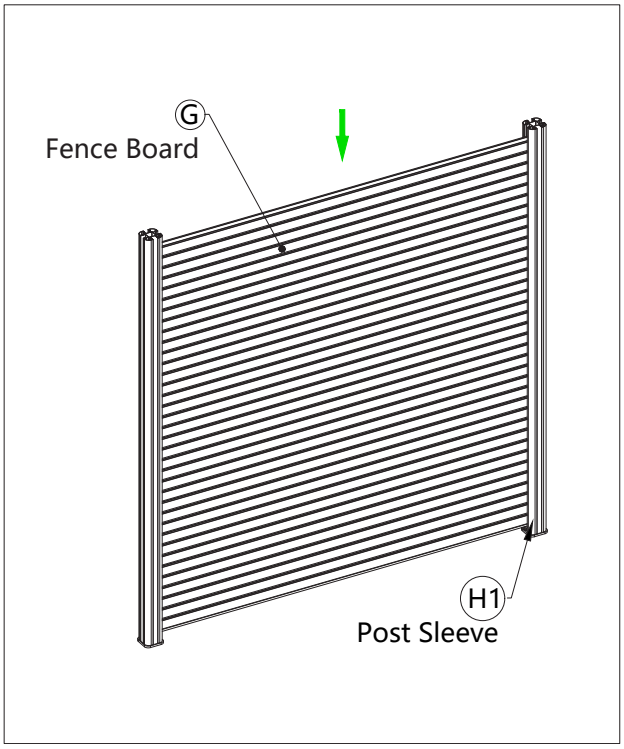


Diagram 8

9 Insert the **Post Trim (E)** into the **Post Sleeve (H1)**, as shown in ***Diagram 9***.

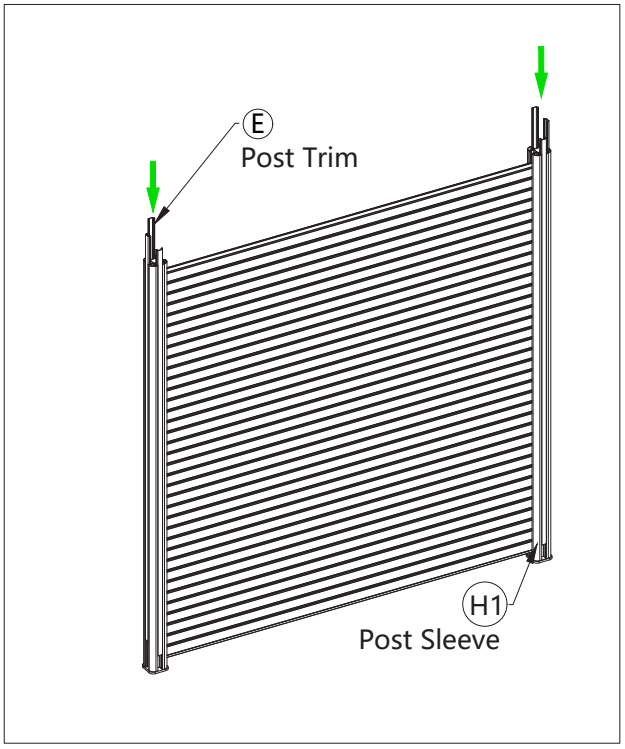


Diagram 9

10 Put the **Clip (A)** inside the **Ending Aluminum Trim (D)** and fix it with the **Screw (B)**, as shown in ***Diagram 10***.

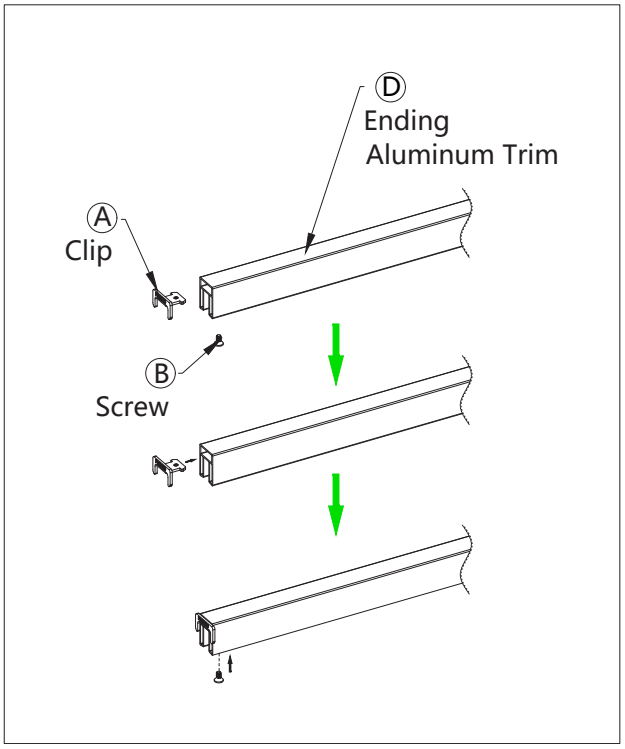


Diagram 10

11 Put the **Ending Aluminum Trim (D)** over the last **Fence Board (G)**, as shown in ***Diagram 11*** and ***Detail 11-1***.

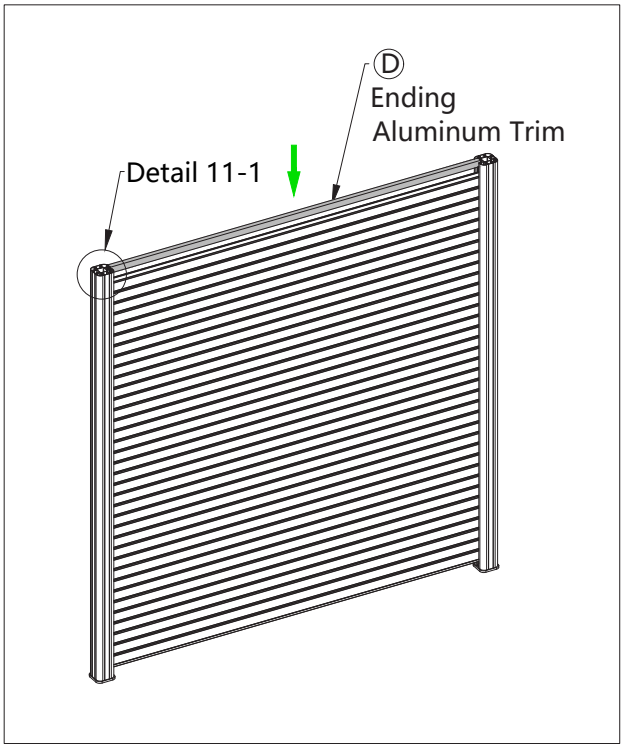
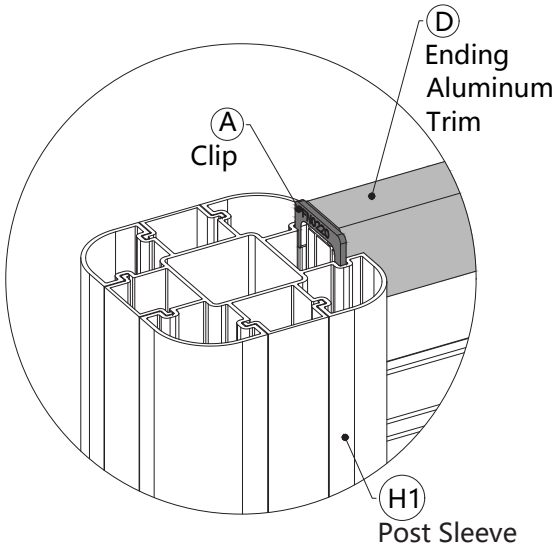


Diagram 11



Detail 11-1

12 Cut a small piece of **Post Trim (E)** and put it over the **Ending Aluminum Trim (D)** to cover the slot between the **Post Sleeve's (H1)** top and the **Ending Aluminum Trim (D)**, as shown in ***Diagram 12*** and ***Detail 12-1***.

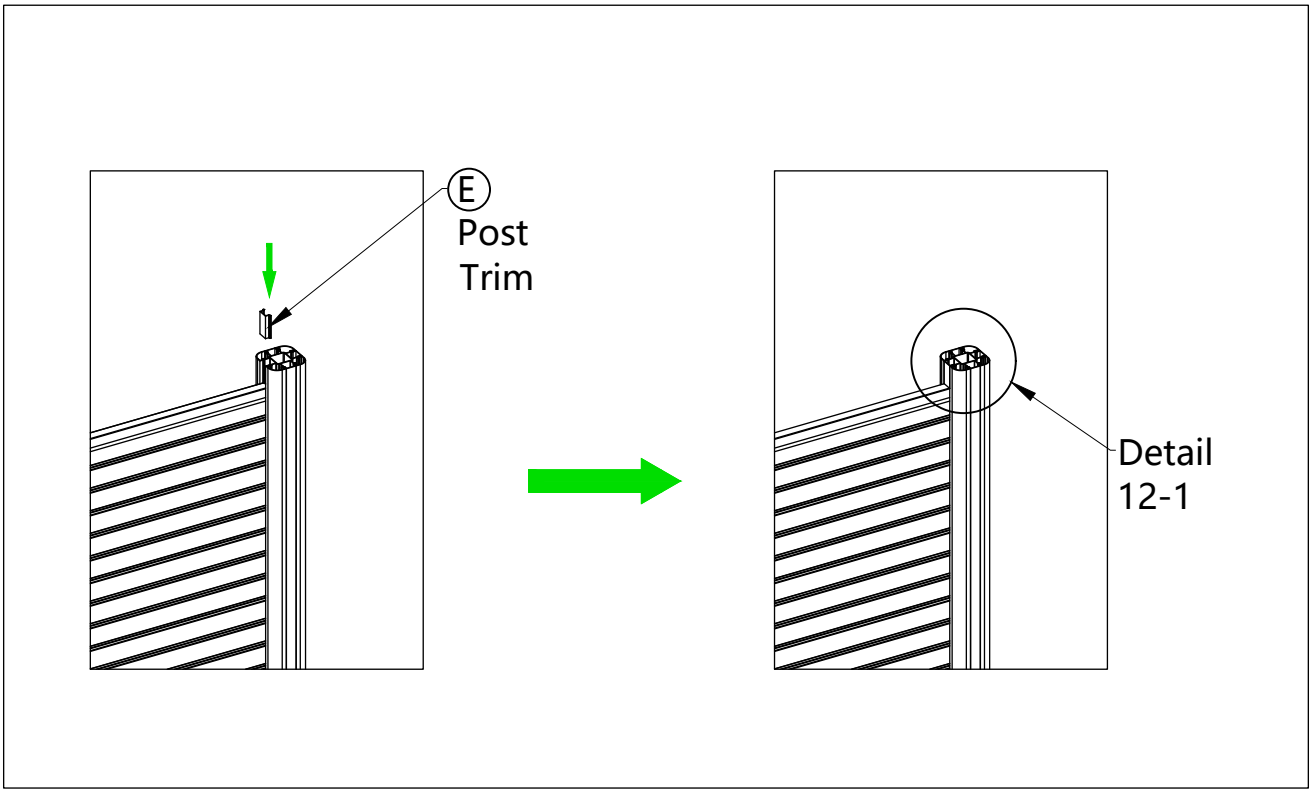
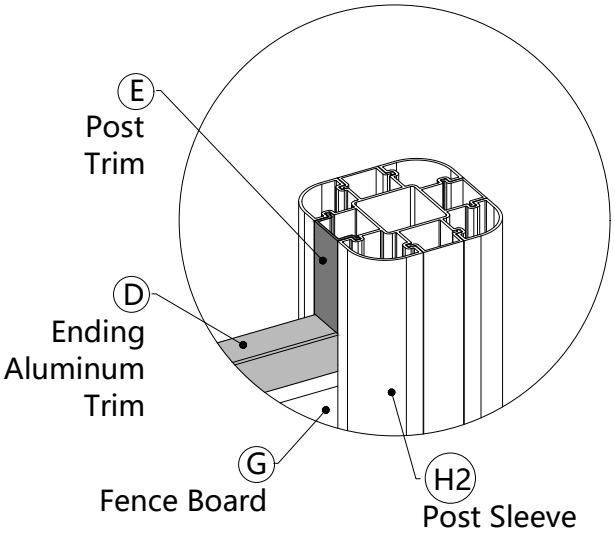


Diagram 12



Detail 12-1

13 Put the **Post Cap (C)** on the top of the **Post Sleeve (H1)**, as shown in ***Diagram 13***.

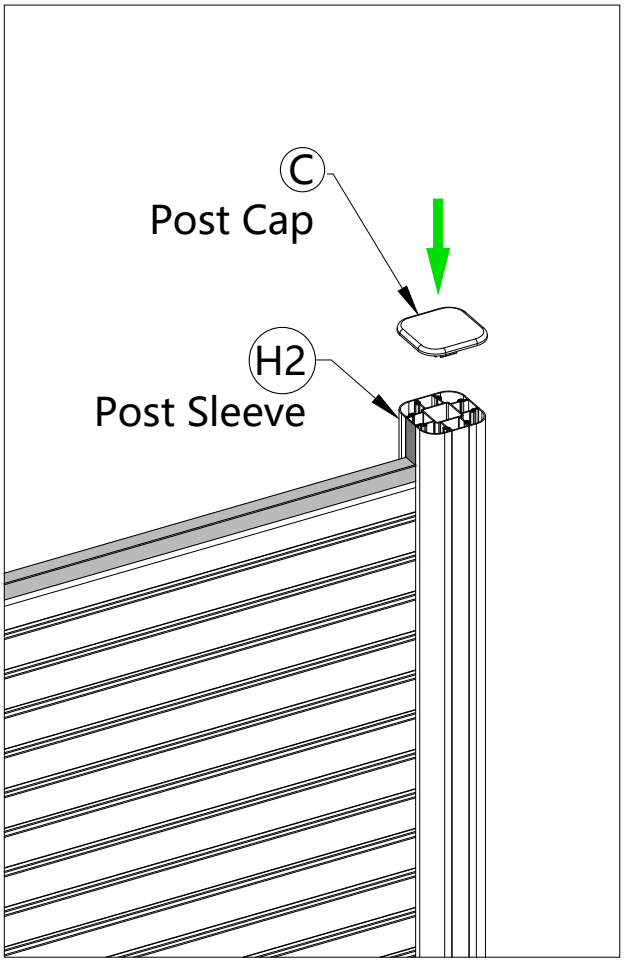


Diagram 13

14 ***Diagram 14*** presents the final appearance after complete the installation.

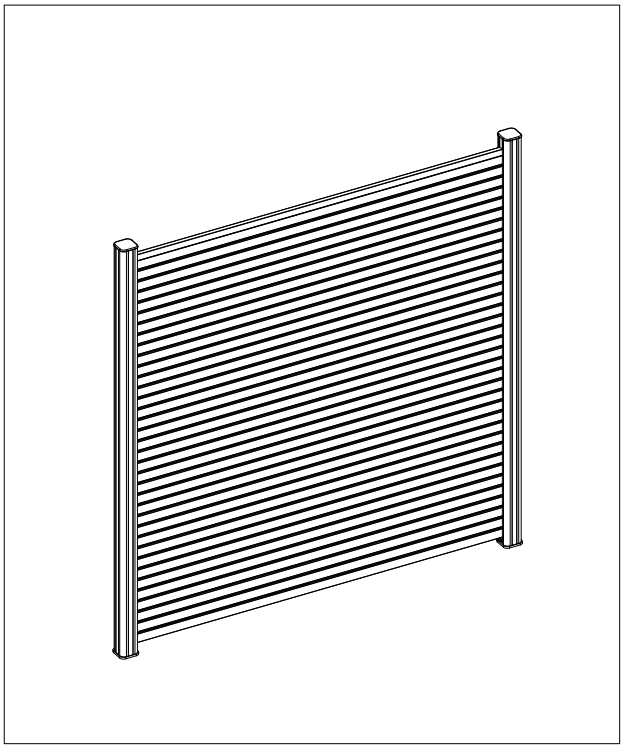


Diagram 14

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